





PAGER Version 3

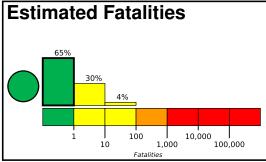
10,000

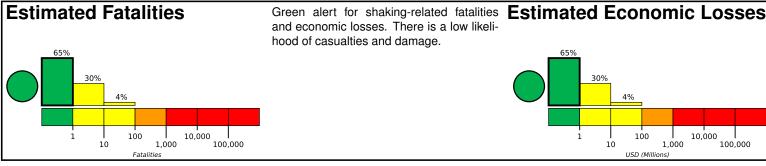
100,000

Created: 1 day, 0 hours after earthquake

M 5.4, 180 km SSE of Ohonua, Tonga

Origin Time: 2024-01-12 22:32:09 UTC (Fri 10:32:09 local) Location: 22.9305° S 174.5575° W Depth: 10.0 km





Estimated Population Exposed to Earthquake Shaking

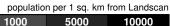
ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	85k	0	0	0	0	0	0	0
ESTIMATEI MERCALLI	MODIFIED INTENSITY	I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

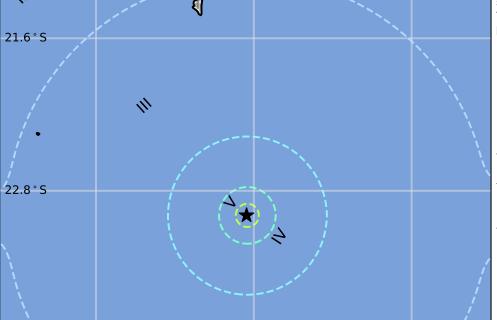
Population Exposure

175.8°W

23.9°S



173.2°W



Ngwalofa 174.5°W

Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are unknown/miscellaneous types and wood construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1977-06-22	122	8.0	VII(47k)	0
1983-03-21	172	6.7	VII(53k)	_
2006-05-03	312	8.0	VIII(7k)	0

Selected City Exposure

from GeoNames.org

MMI	City	Population		
Ш	'Ohonua	1k		
Ш	Vaini	3k		
П	Haveluloto	3k		
III	Nuku'alofa	22k		

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.